

## What is Claimed:

1                   1.     A remote control system for translating an utterance of an operator to a  
2     control parameter of an electronic device, comprising:

3                   a remote control unit, including,

4                   i.     an audio input for receiving the utterance; and

5                   ii.    a transmitter operably linked to the audio input for providing a  
6                   transmission signal corresponding to the utterance;

7                   a relay station responsive to the transmission signal, the relay station  
8     including,

9                   i.     a receiver for recovering audio signals representing the utterance from  
10                   the transmission signal;

11                   ii.   a speech recognition module for translating the audio signals into a  
12                   sequence of words;

13                   iii.   a memory for translating the sequence of words into the control  
14                   parameter;

15                   whereby the control parameter is provided to the electronic device enabling  
16     hands-free remote control of the electronic device.

1                   2.     The remote control system of claim 1, wherein the remote control unit  
2     is an operator headset having a microphone coupled to the audio input of the remote control  
3     unit.

1                   3.     The remote control system of claim 1, wherein the electronic device is  
2     operably linked to the relay station to receive the control parameter.

1                   4.     The remote control system of claim 1, further comprising:

2 a display device, coupled to the electronic device for displaying a control  
3 menu;

4 wherein the utterance is translated by the relay unit into a menu navigation  
5 control parameter that causes the electronic device to navigate the displayed control menu.

1 5. The remote control system of claim 4, wherein the navigation of the  
2 menu is displayed on the display device in response to the electronic device receiving the  
3 menu navigation control parameter.

1 6. The remote control system of claim 4, wherein the received navigation  
2 control parameter is displayed on the display device.

1 7. The remote control system of claim 1, wherein the relay station further  
2 comprises:

3 a transmitter for providing the control parameter to a remote control input port  
4 of the electronic device.

1 8. The remote control system of claim 7, wherein the remote control unit  
2 further comprises:

3 a receiver for receiving transmissions from the relay station.

1 9. The remote control system of claim 8, wherein the receiver of the  
2 remote control unit is configured to receive menu data from the transmitter of the relay unit  
3 and the transmitter of the remote control unit is configured to provide transmission signals  
4 representing utterances for selecting a menu option.

1 10. The remote control system of claim 8, wherein the relay unit further  
2 comprises a communications transceiver configured to allow a user to contact a remotely  
3 located party, wherein the receiver and transmitter of the remote control unit are configured  
4 to receive signals from the communications transceiver and to provide signals to the

communications transceiver to utilize the communication transceiver of the relay unit to communicate with the remotely located party.

11. The remote control system of claim 10, wherein the remote control unit and the relay unit are configured to provide voice communication between the remotely located party and the operator.

12. The remote control system of claim 11, wherein the relay unit is operably linked to a telecommunication line and signals corresponding to the voice communication are transferred between the relay unit and the remotely located party over the telecommunication line.

13. A remote control system for translating utterances of an operator to control parameters for a plurality of electronic devices, comprising:

a remote control unit, including,

i. an audio input which receives utterances; and

ii. a transmitter operably linked to the audio input to provide transmission signals corresponding to the utterances;

a relay station responsive to the transmission signals, the relay station including,

i. a receiver which recovers audio signals representing the utterances from the transmission signals;

ii. a speech recognition module which translates the audio signals into words

iii. a memory including a plurality of look-up tables each of which translates the translated words into the control parameters for a respective one of the plurality of devices; and

- 16                   iv.     a processor which selects one of the look-up tables to be used to  
17                         generate the control parameters responsive to the translated words;
- 18                   v.     a transmitter which provides the control parameters from the selected  
19                         look-up table to the respective electronic device;

20                   whereby hands-free remote control of the plurality of electronic devices is  
21     enabled.

1                   14.     A remote control system according to claim 13, wherein:

2                         the memory further comprises a further plurality of look-up tables, each  
3     corresponding to a respectively different device type; and

4                         the processor is configured to receive a command to associate one of the  
5     further plurality of look-up tables with the plurality of look-up tables to allow use of the one  
6     of the further plurality of look-up tables in controlling the corresponding device.

1                   15.     A remote control system according to claim 14, wherein the processor  
2     is operatively coupled to the corresponding device to receive the command to associate the  
3     one of the further plurality of look-up tables with the plurality of look-up tables from the  
4     corresponding device.

1                   16.     A remote control system for translating an utterance of an operator to a  
2     control parameter of an electronic device, comprising:

3                         a remote control unit, including,

- 4                         i.     a microphone for receiving the utterance;
- 5                         ii.    an audio transducer for providing audio information to the operator;
- 6                         iii.   a transmitter operably linked to the microphone for providing a  
7                                 transmission signal corresponding to the utterance;

- 8                   iv.     a receiver responsive to feedback signals and operably linked to the  
9                   audio transducer for providing audio prompts to the operator
- 10                  a relay station responsive to the transmission signal, the relay station  
11 including,
- 12                  i.     a receiver for recovering the utterance from the transmission signal and  
13                   for receiving feedback signals from the electronic device,
- 14                  ii.    a speech recognition module for translating the utterance of the  
15                   operator into the control parameter;
- 16                  iii.   means for transmitting the control parameter to the electronic device,  
17                   and for transmitting the feedback signal to the receiver of the remote  
18                   control unit; and

19                  whereby the control parameter is provided to an electronic device and the  
20 electronic device provides the feedback signals for prompting an operator of the remote  
21 control unit to select one of a plurality of menu options, enabling hands-free remote control  
22 of the electronic device.

1                  17.    A method of translating an utterance of an operator to a control  
2 parameter of an electronic device, comprising:

3                   converting an utterance into a modulated transmission signal;

4                   receiving the transmission signal at a relay unit;

5                   recovering audio signals representing the utterance from the modulated  
6 transmission signal;

7                   processing the audio signals to recognize the words included in the utterance;

8                   and

9 translating the recognized words into the control parameter,

10 providing the control parameter to the electronic device enabling hands-free  
11 remote control of the electronic device.

1 18. A method of translating an utterance of an operator to a control  
2 parameter and receiving a feedback signal from the electronic device in response to the  
3 control parameter for prompting the operator of the remote control system to select from a  
4 plurality of available control parameters, comprising:

5 converting an utterance into a modulated transmission signal;

6 receiving the transmission signal at a relay unit;

7 recovering audio signals representing the utterance from the modulated  
8 transmission signal;

9 processing the audio signals to recognize words included in the utterance;

10 translating the recognized words into a control parameter for the electronic  
11 device;

12 transmitting the control parameter from the relay unit to the electronic device;

13 receiving a feedback signal from the electronic device at the relay unit;

14 designating an utterance menu command corresponding to the feedback signal;

15 transmitting a signal representing the utterance menu from the relay unit to the  
16 remote control unit; and

17 providing the signal representing the utterance menu as an audio output signal  
18 of the remote control unit,

19                   whereby the utterance menu prompts the operator of the remote control unit to  
20   select one of a plurality of menu options for the electronic device.